# DRC16-70SAE-P013 V ACTIVE

#### DEUTSCH | DEUTSCH DRC

TE Internal #: DRC16-70SAE-P013

Housing for Female Terminals, Wire-to-Wire, 70 Position, .216 in

[5.49 mm] Centerline, Sealable, Black, Wire & Cable, Power & Signal, DEUTSCH DRC

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Connector & Housing Type: Housing for Female Terminals

Mating Pin Diameter: 1.59 mm [.063 in]

Connector System: Wire-to-Wire

Number of Positions: 70

Centerline (Pitch): 5.49 mm [.216 in]

#### All DEUTSCH DRC HOUSINGS (112)

#### **Features**

### **Product Type Features**

Connector & Housing Shape	Rectangular
Connector & Housing Type	Housing for Female Terminals
Connector System	Wire-to-Wire
Sealable	Yes
Hybrid Connector	No
Primary Locking Feature	Contact Retainer
Connector & Contact Terminates To	Wire & Cable

#### **Configuration Features**

Blank Cavity Position	0
Connector Modification	Bonded Front Seal
Connector Seal Code	E Seal
Number of Positions	70
Number of Rows	5

#### **Electrical Characteristics**

Operating Voltage	250 VAC
Nominal Voltage Architecture	12 V, 24 V, 48 V

## **Body Features**



Gable Exit Angle         180°           Body Material         PCS GF           Primary Product Color         Black           Connector Code         A           Contact Features         Size 16           Contact Type         Socket           Mating Pin Diameter         1.59 mm[063 in]           Contact Current Rating (Max)         13 A           Mechanical Attachment         Without           Mounting Feature         Without           Terminal Position Assurance         No           Strain Relief         Add By Accessory           Mating Alignment i type         Keyed           Mating Alignment         With           Connector Mounting Type         Caole Mount (Free Hanging)           Housing Features         Centerline (Pitch)           Dimensions         S49 mm[216 in]           Dimensions         Product Witch           Product Length         41.73 mm[1,643 in]           Product Length         41.73 mm[1,643 in]           Product Height         36.06 mm[1,421 in]           Row-to-Row Spacing         5.49 mm[216 in]           Usage Conditions         125 °C[257 °T]           Operating Temperature Range         -55 - 125 °C[-67 - 257 °T]           Operating Tempera			
Primary Product Color Connector Code A Contact Features  Contact Size Size 16 Contact Type Socket Mating Pin Diameter Contact Current Rating (Max) Mechanical Attachment  Mounting Feature Without Terminal Position Assurance No Strain Relief Add By Accessory Mating Alignment Type Keyed Mating Alignment Connector Mounting Type Cable Mount (Free-Hanging)  Housing Features  Contertine (Pitch) Supplement  Contentine (Pitch) Dimensions  Product Width 103.99 mm(4.094 in) Product Length Product Length 41.73 mm(1.643 in) Product Height Row-to-Row Spacing Usage Conditions  Operating Temperature (Max) Operating Temperature Renge -55 – 125 °C(-67 – 257 °F) Operation/Application Circuit Application  Fower & Signal Industry Standards Agency/Standard  SAE J2030	Cable Exit Angle	180°	
Contact Features  Contact Size Size 16  Contact Type Socket  Meting Pin Diameter 1.59 mml 063 inl  Contact Current Rating (Max) 13 A  Mechanical Attachment  Mounting Feature Without  Terminal Position Assurance No Sizain Relief Add By Accessory  Mating Alignment Type Keyed  Mating Alignment With  Connector Mounting Type Cable Mount (Free Hanging)  Housing Features  Centerline (Pitch) 5.49 mml, 216 inl  Dimensions  Product Width 103.99 mml (4.094 inl)  Product Length 41.73 mml (1.643 inl)  Product Height 36.06 mml (1.421 inl)  Row-to-Row Spacing 549 mml, 216 inl  Usage Conditions  Operating Temperature (Max) 125 °C(257 °F)  Operating Temperature Range 55 - 125 °C(67 - 257 °F)  Operation/Application  Gircuit Application  Power & Signal  Industry Standards  Agency/Standards	Body Material	PPS GF	
Contact Size Size 16 Contact Type Socket  Mating Pin Diameter 1.59 mm[.063 in] Contact Current Rating (Max) 13 A  Mechanical Attachment  Mounting Feature Without I erminal Position Assurance No Strain Relief Add By Accessory Mating Alignment Type Keyed Mating Alignment Type Cable Mount (Free-Hanging)  Housing Features  Centerline (Pitch) 5.49 mm[.216 in]  Dimensions  Product Width 103.99 mm[4.094 in]  Product Length 41.73 mm[1.643 in]  Product Length 41.73 mm[1.643 in]  Product Height 36.06 mm[1.421 in]  Row-to-Row Spacing 5.49 mm[.216 in]  Usage Conditions  Operating Temperature (Max) 125 "C[257 "F]  Operating Temperature Range 5.55 - 125 "C[-67 - 257 "T]  Operating Temperature Range Power & Signal  Industry Standards  Agency/Standard SAL J2030	Primary Product Color	Black	
Contact Type         Socket           Mating Pin Diameter         1.59 mm[.063 in]           Contact Current Rating (Max)         13 A           Mechanical Attachment         Without           Mounting Feature         Without           Lerminal Position Assurance         No           Strain Rollef         Add By Accessory           Mating Alignment Type         Keyed           Mating Alignment Type         With           Connector Mounting Type         Cable Mount (Free Hanging)           Housing Features         Centerline (Pitch)           Centerline (Pitch)         5.49 mm[.216 in]           Dimensions         Product Width         103.99 mm[4.094 in]           Product Length         41.73 mm[1.643 in]           Product Height         36.06 mm[1.421 in]           Row-to-Row Spacing         5.49 mm[.216 in]           Usage Conditions         Usage Conditions           Operating Temperature (Max)         125 °C[257 °F]           Operating Temperature Range         -55 –125 °C[-67 –257 °T]           Operation/Application         Power & Signal           Industry Standards         SAE J2030	Connector Code	A	
Contact Type Socket  Mating Pin Diameter 1.59 mm[.063 in]  Contact Current Rating (Max) 13 A  Mechanical Attachment  Mounting I eature Writhout  Terminal Position Assurance No  Strain Relief Add By Accessory  Mating Alignment Type Keyed  Mating Alignment With  Connector Mounting Type Cable Mount (I ree-Hanging)  Housing Features  Centerline (Pitch) 5.49 mm[.216 in]  Dimensions  Product Wridth 103.99 mm[4.094 in]  Product Length 41.73 mm[1.643 in]  Product Height 36.06 mm[1.421 in]  Row-to-Row Spacing 5.49 mm[.216 in]  Usage Conditions  Operating Temperature (Max) 125 °C[257 °F]  Operating Temperature Range -55 –125 °C[-67 –257 °F]  Operating Temperature Range -55 –125 °C[-67 –257 °F]  Operation/Application  Circuit Application Power & Signal  Industry Standards  Agency/Standard SAE J2030	Contact Features		
Mating Pin Diameter         1.59 mm[,063 in]           Contact Current Rating (Max)         13 A           Mechanical Attachment         Without           Mounting Feature         Without           Terminal Position Assurance         No           Strain Relief         Add By Accessory           Mating Alignment Type         Keyed           Mating Alignment         With           Connector Mounting Type         Cable Mount (Free-Hanging)           Housing Features         Centerline (Pitch)           Centerline (Pitch)         5.49 mm[,216 in]           Dimensions         103.99 mm[4.094 in]           Product Length         41.73 mm[1.643 in]           Product Height         36.06 mm[1.421 in]           Row-to-Row Spacing         5.49 mm[,216 in]           Usage Conditions         Usage Conditions           Operating Temperature (Max)         125 °C[257 °F]           Operating Temperature Range         55 125 °C[ 67 257 °F]           Operating Temperature Range         55 125 °C[ 67 257 °F]           Operating Application         Power & Signal           Industry Standard         SAE J2030	Contact Size	Size 16	
Contact Current Rating (Max)  Mechanical Attachment  Mounting Feature  Without  Terminal Position Assurance  No  Strain Relief  Add By Accessory  Mating Alignment Type  Keyed  Mating Alignment  With  Connector Mounting Type  Cable Mount (Free-Hanging)  Housing Features  Centerline (Pitch)  Dimensions  Product Width  103.99 mm[4.094 in]  Product Length  41.73 mm[1.643 in]  Product Leight  36.06 mm[1.421 in]  Row-to-Row Spacing  Usage Conditions  Operating Temperature (Max)  Operating Temperature Range  -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application  Power & Signal  Industry Standards  Agency/Standard  SAE J2030	Contact Type	Socket	
Mechanical Attachment  Mounting Feature  Mounting Feature  No  Strain Relief  Add By Accessory  Mating Alignment Type  Keyed  Mating Alignment  Connector Mounting Type  Cable Mount (Free-Hanging)  Housing Features  Centerline (Pitch)  5.49 mm[.216 in]  Dimensions  Product Width  103.99 mm[4.094 in]  Product Length  41.73 mm[1.643 in]  Product Height  36.06 mm[1.421 in]  Row-to-Row Spacing  Usage Conditions  Operating Temperature (Max)  Operating Temperature Range  -55 – 125 °C[-67 – 257 °F]  Operatino/Application  Circuit Application  Power & Signal  Industry Standards  Agency/Standard  SAF J2030	Mating Pin Diameter	1.59 mm[.063 in]	
Mounting Feature  Terminal Position Assurance  No  Strain Relief  Add By Accessory  Mating Alignment Type  Keyed  Mating Alignment  Connector Mounting Type  Cable Mount (Free-Hanging)  Housing Features  Centerline (Pitch)  Dimensions  Product Width  103.99 mm[4.094 in]  Product Length  41.73 mm[1.643 in]  Product Height  36.06 mm[1.421 in]  Row-to-Row Spacing  Usage Conditions  Operating Temperature (Max)  Operating Temperature Range  55 – 125 °C[ 67 257 °F]  Operation/Application  Circuit Application  Power & Signal  Industry Standards  Agency/Standard  SAE J2030	Contact Current Rating (Max)	13 A	
Terminal Position Assurance  Strain Relief  Add By Accessory  Mating Alignment Type  Keyed  Mating Alignment  Connector Mounting Type  Cable Mount (Free-Hanging)  Housing Features  Centerline (Pitch)  5.49 mm[.216 in]  Dimensions  Product Width  103.99 mm[4.094 in]  Product Length  41.73 mm[1.643 in]  Product Height  36.06 mm[1.421 in]  Row to Row Spacing  Usage Conditions  Operating Temperature (Max)  Operating Temperature Range  -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application  Industry Standards  Agency/Standard  SAF J2030	Mechanical Attachment		
Strain Relief Add By Accessory  Mating Alignment Type Keyed  Mating Alignment With  Connector Mounting Type Cable Mount (Free-Hanging)  Housing Features  Centerline (Pitch) 5.49 mm[.216 in]  Dimensions  Product Width 103.99 mm[4.094 in]  Product Length 41.73 mm[1.643 in]  Product Height 36.06 mm[1.421 in]  Row-to-Row Spacing 5.49 mm[.216 in]  Usage Conditions  Operating Temperature (Max) 125 °C[.257 °F]  Operating Temperature Range -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application  Industry Standards  Agency/Standard SAE J2030	Mounting Feature	Without	
Mating Alignment Type Keyed  Mating Alignment With  Connector Mounting Type Cable Mount (Free-Hanging)  Housing Features  Centerline (Pitch) 5.49 mm[.216 in]  Dimensions  Product Width 103.99 mm[4.094 in]  Product Length 41.73 mm[1.643 in]  Product Height 36.06 mm[1.421 in]  Row-to-Row Spacing 5.49 mm[.216 in]  Usage Conditions  Operating Temperature (Max) 125 °C[257 °F]  Operating Temperature Range -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application Power & Signal  Industry Standards  Agency/Standard SAE J2030	Terminal Position Assurance	No	
Mating Alignment Connector Mounting Type Cable Mount (Free-Hanging)  Housing Features  Centerline (Pitch) 5.49 mm[.216 in]  Dimensions  Product Width 103.99 mm[4.094 in] Product Length 41.73 mm[1.643 in] Product Height 36.06 mm[1.421 in] Row-to-Row Spacing 5.49 mm[.216 in]  Usage Conditions  Operating Temperature (Max) 125 °C[257 °F] Operating Temperature Range -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application  Industry Standards  Agency/Standard  SAE J2030	Strain Relief	Add By Accessory	
Connector Mounting Type  Cable Mount (Free-Hanging)  Housing Features  Centerline (Pitch)  5.49 mm[.216 in]  Dimensions  Product Width  103.99 mm[4.094 in]  Product Length  41.73 mm[1.643 in]  Product Height  36.06 mm[1.421 in]  Row-to-Row Spacing  5.49 mm[.216 in]  Usage Conditions  Operating Temperature (Max)  125 °C[257 °F]  Operating Temperature Range  -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application  Industry Standards  Agency/Standard  SAE J2030	Mating Alignment Type	Keyed	
Housing Features         Centerline (Pitch)       5.49 mm[.216 in]         Dimensions         Product Width       103.99 mm[4.094 in]         Product Length       41.73 mm[1.643 in]         Product Height       36.06 mm[1.421 in]         Row-to-Row Spacing       5.49 mm[.216 in]         Usage Conditions         Operating Temperature (Max)       125 °C[257 °F]         Operation/Application       -55 – 125 °C[-67 – 257 °F]         Operation/Application       Power & Signal         Industry Standards       SAE J2030	Mating Alignment	With	
Centerline (Pitch)  Dimensions  Product Width  103.99 mm[4.094 in]  Product Length  41.73 mm[1.643 in]  Product Height  36.06 mm[1.421 in]  Row-to-Row Spacing  5.49 mm[.216 in]  Usage Conditions  Operating Temperature (Max)  Operating Temperature Range  -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application  Power & Signal  Industry Standards  Agency/Standard  SAE J2030	Connector Mounting Type	Cable Mount (Free-Hanging)	
Product Width 103.99 mm[4.094 in]  Product Length 41.73 mm[1.643 in]  Product Height 36.06 mm[1.421 in]  Row-to-Row Spacing 5.49 mm[.216 in]  Usage Conditions  Operating Temperature (Max) 125 °C[257 °F]  Operating Temperature Range -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application Power & Signal  Industry Standards  Agency/Standard SAE J2030	Housing Features		
Product Width 103.99 mm[4.094 in]  Product Length 41.73 mm[1.643 in]  Product Height 36.06 mm[1.421 in]  Row-to-Row Spacing 5.49 mm[.216 in]  Usage Conditions  Operating Temperature (Max) 125 °C[257 °F]  Operating Temperature Range -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application Power & Signal  Industry Standards  Agency/Standard SAE J2030	Centerline (Pitch)	5.49 mm[.216 in]	
Product Length 41.73 mm[1.643 in]  Product Height 36.06 mm[1.421 in]  Row-to-Row Spacing 5.49 mm[.216 in]  Usage Conditions  Operating Temperature (Max) 125 °C[257 °F]  Operating Temperature Range -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application Power & Signal  Industry Standards  Agency/Standard SAE J2030	Dimensions		
Product Height 36.06 mm[1.421 in]  Row-to-Row Spacing 5.49 mm[.216 in]  Usage Conditions  Operating Temperature (Max) 125 °C[257 °F]  Operating Temperature Range -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application Power & Signal  Industry Standards  Agency/Standard SAE J2030		103.99 mm[4.094 in]	
Row-to-Row Spacing  Usage Conditions  Operating Temperature (Max) Operating Temperature Range  -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application  Power & Signal  Industry Standards  Agency/Standard  SAE J2030	Product Width	103.99 mm[4.094 in]	
Usage Conditions  Operating Temperature (Max)  Operating Temperature Range  -55 - 125 °C[-67 - 257 °F]  Operation/Application  Circuit Application  Power & Signal  Industry Standards  Agency/Standard  SAE J2030			
Operating Temperature (Max)  Operating Temperature Range  -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application  Power & Signal  Industry Standards  Agency/Standard  SAE J2030	Product Length	41.73 mm[1.643 in]	
Operating Temperature Range -55 – 125 °C[-67 – 257 °F]  Operation/Application  Circuit Application  Power & Signal  Industry Standards  Agency/Standard  SAE J2030	Product Length  Product Height	41.73 mm[1.643 in] 36.06 mm[1.421 in]	
Operation/Application Circuit Application Power & Signal Industry Standards Agency/Standard SAE J2030	Product Length Product Height Row-to-Row Spacing	41.73 mm[1.643 in] 36.06 mm[1.421 in]	
Circuit Application Power & Signal  Industry Standards  Agency/Standard SAE J2030	Product Length  Product Height  Row-to-Row Spacing  Usage Conditions	41.73 mm[1.643 in] 36.06 mm[1.421 in] 5.49 mm[.216 in]	
Industry Standards  Agency/Standard  SAE J2030	Product Length  Product Height  Row-to-Row Spacing  Usage Conditions  Operating Temperature (Max)	41.73 mm[1.643 in] 36.06 mm[1.421 in] 5.49 mm[.216 in]  125 °C[257 °F]	
Agency/Standard SAE J2030	Product Length  Product Height  Row-to-Row Spacing  Usage Conditions  Operating Temperature (Max)  Operating Temperature Range	41.73 mm[1.643 in] 36.06 mm[1.421 in] 5.49 mm[.216 in]  125 °C[257 °F]	
	Product Length  Product Height  Row-to-Row Spacing  Usage Conditions  Operating Temperature (Max)  Operating Temperature Range  Operation/Application	41.73 mm[1.643 in] 36.06 mm[1.421 in] 5.49 mm[.216 in]  125 °C[257 °F] -55 – 125 °C[-67 – 257 °F]	
Degree of Protection IP68, IP6K9K	Product Length  Product Height  Row-to-Row Spacing  Usage Conditions  Operating Temperature (Max)  Operating Temperature Range  Operation/Application  Circuit Application	41.73 mm[1.643 in] 36.06 mm[1.421 in] 5.49 mm[.216 in]  125 °C[257 °F] -55 – 125 °C[-67 – 257 °F]	
	Product Length Product Height Row-to-Row Spacing  Usage Conditions  Operating Temperature (Max) Operating Temperature Range  Operation/Application  Circuit Application  Industry Standards	41.73 mm[1.643 in]  36.06 mm[1.421 in]  5.49 mm[.216 in]  125 °C[257 °F]  -55 – 125 °C[-67 – 257 °F]  Power & Signal	
UL Flammability Rating 20mm Flame Test per Standard UL-94	Product Length Product Height Row-to-Row Spacing  Usage Conditions  Operating Temperature (Max) Operating Temperature Range  Operation/Application  Circuit Application  Industry Standards  Agency/Standard	41.73 mm[1.643 in]  36.06 mm[1.421 in]  5.49 mm[.216 in]  125 °C[257 °F]  -55 – 125 °C[-67 – 257 °F]  Power & Signal  SAE J2030	



Packaging Features		
Packaging Quantity	50	
Packaging Method	Box	
Other		
Serviceable	Yes	
Connector Position Assurance Capable	No	

### **Product Compliance**

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not reviewed for solder process capability

#### Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach

## Compatible Parts





TE Part # CAT-D48-SP729 DEUTSCH SEALING PLUGS



EXT TOOL, SIZE 16, 14-16 AWG, N,







TE Part # 0411-354-1605 EXT TOOL, SIZE 16, 16-18 AWG, N, BRN



TE Part # CAT-D799-H342 DEUTSCH DRC HEADERS



TE Part # CAT-D799-CH8172 DEUTSCH DRC HOUSINGS



TE Part # CAT-D48-SFT273 DEUTSCH STAMPED & FORMED CONTACTS



TE Part # CAT-D48-ST273 DEUTSCH SOLID CONTACTS



TE Part # CAT-D799-B128 DEUTSCH DRC BACKSHELLS



TE Part # DRC70-BT BOOT, 70P, 16SZ, PLG/REC, ST, BLK



TE Part # 0411-336-1605 EXT TOOL, SIZE 16, 16-20 AWG, E, DRK BLU

TE Part # 0515-006-7005 PROTECT CVR, 70P, PLG, WHT, DRC16

TE Part # 0515-031-7005 WIRE ROUTER, 70P, BLK, PLG

## Also in the Series | DEUTSCH DRC





Automotive Housings(112)



Insertion & Extraction Tools(7)



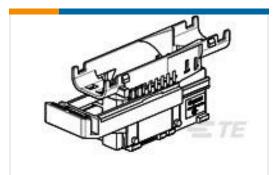
PCB Headers & Receptacles(41)

# Customers Also Bought





TE Part #HD36-24-23SE PLG, 23P, AL, E, 16, S



TE Part #1394522-2 MIXED SOCKET HOUSING, 42POS.,



TE Part #DRC16-70SAE-P066 DEUTSCH DRC HOUSINGS



TE Part #HDP24-24-9SE-L015 REC, 9P, BLK, E, THD, 4/8/12, S



BOOT, 2P, REC, ST, BLK



TE Part #3257456005 RBK-VWS-125-NR2-X-40MM



TE Part #344073-1 8 WAY TAB HSG.BLACK



TE Part #344086-1 8 WAY TAB ANTI-BACKOUT



### **Documents**

**Product Drawings** 

PLG, 70P, BLK, E, SEAL BOND, A

English

**CAD Files** 

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_DRC16-70SAE-P013\_A.2d\_dxf.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_DRC16-70SAE-P013\_A.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_DRC16-70SAE-P013\_A.3d\_stp.zip

English

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Datasheets & Catalog Pages

Housing for Female Terminals, Wire-to-Wire, 70 Position, .216 in [5.49 mm] Centerline, Sealable, Black, Wire & Cable, Power & Signal, DEUTSCH DRC



## ICT Terminals and Connectors Catalogue

English

**Product Specifications** 

**Application Specification** 

English

Product Environmental Compliance

**Product Compliance** 

English

**Product Compliance** 

English

**Agency Approvals** 

**UL Report** 

English